



# 4/193030

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applica 03482.	ant's or agent's file reference 00010	FOR FURTHER ACTION		cation of Transmittal of International Search orm PCT/ISA/220) as well as, where applicable, ow.	
	tional application No. ISO3/25614	International filing date (day/month/year) 15 August 2003 (15.08.2003)		(Earliest) Priority Date (day/month/year) 15 August 2002 (15.08.2002)	
	Applicant GENZYME CORPORATION				
This in	ant according to Article 18. A conternational search report consists  It is also accompanied	py is being transmitted to the Inte	rnational ?		
a.	language in which it was filed,	the international search was carried unless otherwise indicated under the	out on the	basis of the international application in the	
b.	Authority (Rule 23.1(b)).	and/or amino acid sequence discle		international application furnished to this international application, the international	
	contained in the internationa	l application in written form.	able form	•	
<u>֓</u> ֡֡֡֓֡֡֡֡֡֡֡	filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.				
	furnished subsequently to thi	is Authority in computer readable fo	orm.		
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
	the statement that the inform been furnished.	ation recorded in computer readable	e form is ic	dentical to the written sequence listing has	
2.	Certain claims were found	unsearchable (See Box I).			
3. 2 4. <u>w</u>	Unity of invention is lacking ith regard to the title,	g (See Box II).			
	the text is approved as submi	itted by the applicant.			
	the text has been established	by this Authority to read as follows	:		
5. W					
	the text is approved as submi				
L	the text has been established, may, within one month from	according to Rule 38.2(b), by this the date of mailing of this internation	Authority a	as it appears in Box III. The applicant report, submit comments to this Authority.	
6. <u>T</u> ł	6. The figure of the drawings to be published with the abstract is Figure No.				
	as suggested by the applicant			None of the figures	
	because the applicant failed to	o suggest a figure.			
	because this figure better cha	racterizes the invention.			

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International application No.

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This interna	tional report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. 6.4(a).	Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule
Box II O	servations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This Internal Please See C	ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet
Please See C	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
Please See C	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
Please See C	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search recovers only those claims for which fees were paid, specifically claims Nos.:  No required additional search fees were timely paid by the applicant. Consequently, this international search reportestricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-13 [drawn to delta(translocassociated protein delta)]
Please See C	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search recovers only those claims for which fees were paid, specifically claims Nos.:  No required additional search fees were timely paid by the applicant. Consequently, this international search report restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-13 [drawn to delta(translocal associated protein delta)]

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### INTERNATIONAL SEARCH REPORT

International application No.	
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PCT/US03/25614

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : C12Q 1/00, 1/68, 1/70; G01N 33/53, 33/567, 33/569				
US CL: 435/4, 5, 6, 7.1, 7.2, 7.21  According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/4, 5, 6, 7.1, 7.2, 7.21				
han minimum documentation to the	he extent that such documents are included	in the fields searched		
uring the international search (name	me of data base and, where practicable, se	arch terms used)		
DERED TO BE RELEVANT				
ocument, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.		
L. Cloning and molecular charact	terization of a human ortholog of	1-13		
MIYAZAKI, K. ET AL. NEDLI, a Novel Ubiquitin-protein Isopeptide Ligase for Dishevelled-1, Targets Mutant Superoxide Dismutase-1. The Journal of Biological Chemistry. 19 March 2004, Vol. 279, No. 12, pages 11327-11335, entire document.				
BRENNER, V. ET AL. Genomic Organization of Two Novel Genes on Human Xq28: Compact Head to Head Arrangement of IDHgamma and TRAPdelta is Conserved in Rat and Mouse. Genomics. 15 August 1997, Vol. 44, No. 1, pages 8-14, entire document.				
AL. Mutations in SOD1 associate interactions. Nature Genetics. Just	ted with amyotrophic lateral sclerosis January 1997, Vol. 15, No. 1, pp. 91-	1-13		
ed in the continuation of Box C.	See patent family annex.			
documents: e of the art which is not considered to be hed on or after the international filing	date and not in conflict with the applic the principle or theory underlying the "X" document of particular relevance; the considered novel or cannot be considered.	cation but cited to understand invention  claimed invention cannot be cred to involve an inventive		
s on priority claim(s) or which is cited to other citation or other special reason (as	"Y"  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document referring to an oral disclosure, use, exhibition or other means				
"P" document published prior to the international filing date but later than the				
Date of the actual completion of the international search  Date of mailing of the international search report				
15 February 2005 (15.02.2005) 27 DEC 2005				
ISA/US	Authorized officer & Rolle +			
/US	Christopher J Nichols, Ph.D.			
P.O. Box 1450 Alexandria, Virginia 22313-1450  Facsimile No. (571) 273-3201  Telephone No. (571) 273-1600				
	1/68, 1/70; G01N 33/53, 33/567 7.1, 7.2, 7.21 In Classification (IPC) or to both an Classification (IPC) or to both an Classification system followed, 7.21  Than minimum documentation to the defendant of the de	1/68. 1/70; GOIN 33/53, 33/567, 33/569 7.1. 7.2. 7.2.1  at Classification (IPC) or to both national classification and IPC  ed (classification system followed by classification symbols) 7.21  han minimum documentation to the extent that such documents are included uring the international search (name of data base and, where practicable, so DERED TO BE RELEVANT  ocument, with indication, where appropriate, of the relevant passages L. Cloning and molecular characterization of a human ortholog of AP in ultraviolet B-induced melanoma. Melonoma Research. April 2004, p. 107-114, entire document.  ET AL. NEDL1, a Novel Ubiquitin-protein Isopeptide Ligase for rgets Mutant Superoxide Dismutase-1. The Journal of Biological arch 2004, Vol. 279, No. 12, pages 11327-11335, entire document.  T AL. Genomic Organization of Two Novel Genes on Human Xq28: Head Arrangement of IDHgamma and TRAPdelta is Conserved in Rat mics. 15 August 1997, Vol. 44, No. 1, pages 8-14, entire document.  AL. Mutations in SOD1 associated with amyotrophic lateral sclerosis in interactions. Nature Genetics. January 1997, Vol. 15, No. 1, pp. 91-  nt.  do in the continuation of Box C. See patent family annex.  documents:  ord in the continuation of Box C. See patent family annex.  documents:  ord in the continuation of Box C. See patent family annex.  documents:  """  document of particular relevance; the considered too he considered nowlor cannot be considered or involve an inventive site considered to i		

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# INTERNATIONAL SEARCH REPORT

tegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	GIALLONGO, A. ET AL. Structural features of the human gene for muscle-specific enolase differential splicing in the 5'-untranslated sequence generates two forms of mRNA. Eur. J. Biochem. 1993, Vol. 214, pages 367-374, entire document.	1-13

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# BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group 1, claim(s) 1-13, drawn to a method to aid in diagnosing glioma comprising the steps of detecting an expression product.

Group 2, claim(s) 14-21, drawn to a method of treating a glioma comprising the steps of administering an antibody.

Group 3, claim(s) 22-35 and 47-60, drawn to a method of identifying a test compound as a potential anti-caner or anti-glioma drug.

Group 4, claim(s) 36-46, drawn to a method to aid in diagnosing glioma comprising the steps of detecting an mRNA.

Group 5, claim(s) 61-67, drawn to a method to induce an immune response to glioma.

This application contains claims directed to more than one species of the generic invention. These species are deemed to tack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1. The species listed do not share a common structure or function.

The following claim(s) are generic:

Group 1, Claim 1, all species listed therein.

Group 2, Claim 14, all species listed therein.

Group 3, Claims 22 and 47, all species listed therein in each claim.

Group 4, Claim 36, all species listed therein.

Group 5, Claim 61, all species listed therein.

In order for more than one species to be examined, the appropriate additional examination fees must be paid.

Applicant is invited to select one species per generic claim listed per group elected.

The inventions listed as Groups 1-5 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Group 1 is drawn to the special technical feature of detecting an expression product, which is not shared by any of the other groups.

Group 2 is drawn to the special technical feature of administering an antibody, which is not shared by any of the other groups.

Group 3 is drawn to the special technical feature of identifying a test compound, which is not shared by any of the other groups.

Group 4 is drawn to the special technical feature of detecting an mRNA, which is not shared by any of the other groups.

Group 5 is drawn to the special technical feature of inducing an immune response, which is not shared by any of the other groups.

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Continuation of B. FIELDS SEARCHED Item 3: WEST (USPT, PGPUBS, USOCR, JPO, EPO, DERWENT); NCBI (PUBMED); delta(translocon-associated protein delta); colorectal tumor, colon tumor, colon ca microarrays	STN (BIOSCIENCE) ncer, colorectal cancer, gene expression, ESTs.

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